MEMO

To:

Brian Freeman, U.S. EPA Region 5 Work Assignment Manager

Jonathan Adenuga, Technical Advisor

From:

Terry Uecker, TechLaw Work Assignment Manager

Demaree Collier, Field Team Leader DO

Subject:

LTV Steel Site Visit Report - February 23, 2000

Date:

March 3, 2000



This memorandum summarizes the site visit conducted by U.S. EPA, with the assistance of TechLaw on February 23, 2000 at LTV Steel in East Chicago, Indiana. The site visit was conducted under REPA Work Assignment No. R05705.

Upon arrival at the site, an initial meeting was conducted. During the meeting, LTV Steel (LTV) personnel were presented with the locations that U.S. EPA and the Indiana Department of Environmental Management (IDEM) wanted to view based upon previous investigations. It was agreed that LTV personnel would escort everyone to the locations indicated. LTV asked to be provided a copy of the photographs that would be taken during the site visit. It was stated during the meeting that the area of the coke manufacturing operations no longer existed and most buildings in that area had been demolished. It was further indicated that Mr. Wayne Gould, Assets Management Section of LTV, was in charge of the areas that had been demolished and could possibly assist in locating specific areas within this section of the site that were of concern for potential future sampling.

The following is a list of areas or Solid Waste Management Units (SWMUs) that were viewed during the site visit:

"The Hill" (SWMU 7)

Terminal Lagoon (SWMU 10)

Ladle Metallurgy Facility Baghouse (SWMU 11)

Basic Oxygen Furnace (SWMU 15)

Clark Materials Landfill (SWMU 20)

Filter Backwash Pile (SWMU 23)

Concrete Sludge Drying Beds (SWMU 27)

No. 3 Sheet Mill Spent Pickle Liquor Tanks

(SWMU 28 and 29)

Former Cadence Tank (SWMU 35)

Ferrous Chloride Waste Tanks Waste Tin Line Washwater Tank

(SWMU 44)

No. 2 Tin Mill Waste Sodium Dichromate

Truck Loading Station (SWMU 45)

No. 2 Tin Mill Waste Chromic Acid Tank

(SWMU 50)

Coke Plant Decanter Site (SWMU 65)

Old Quenching Area (SWMU 73)

During the site visit, Mr. Mike Thomas of LTV stated that the Old Quenching Area (SWMU 73) never existed. Access to the area that was reportedly the location of SWMU 73 was not possible due to the dangerous activities currently being performed at this location. However, the area was viewed from a distance.

TECHLAW INC.

Brian Freeman Jonathan Adenuga Page 2 March 3, 2000

Also, visible blue staining was noted on the ground at the No. 2 Tin Mill Waste Sodium Dichromate Truck Loading Station (SWMU 45). It was stated by Mr. Alan Cross of LTV that a blue dye is added to the waste managed at SWMU 45. However, for the purpose of future reference it should be determined when the dye is added to the waste stream. If the dye is added before the waste sodium dichromate is pumped into the trucks, the visible staining around the ground surface could be an indication of contamination since the "blue areas" could contain waste sodium dichromate.

cc: F. Norling, EPA Region 5, w/out attachmentsW. Jordan, Central FilesChicago Central Files

APPENDIX A

Photograph Log from 23, 2000 Site Visit

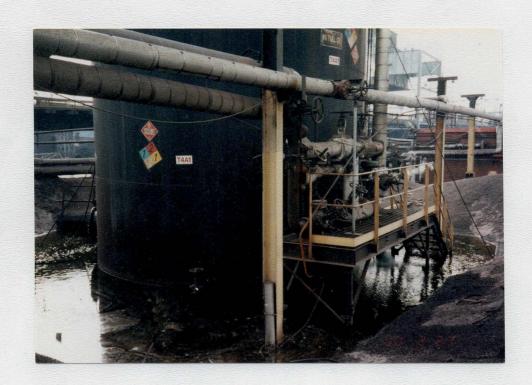


Photo No.: R1P1
Direction: Southeast

Date: February 23, 2000

Time: 1148

Description:

View of the Former Cadence Tank Area (SWMU 35) which is currently an above ground storage tank (AST) containing Fuel Oil #6. The photo was taken from directly on top of the bermed area surrounding the AST. Note the water pooled around the bottom of the AST and the sheen on the surface of the water.



Photo No.: R1P2
Direction: Southeast

Date: February 23, 2000 Time: 1150

Description: View of the AST containing Fuel Oil #6, which is located at the Former Cadence Tank Area (SWMU 35). This photo was taken from the bottom of the bermed area, looking upward.



Photo No.: R1P3 - R1P4 Direction: North - Northeast Date: February 23, 2000 Time: 1156

Description: Panoramic view of the Terminal Lagoon Area (SWMU 10). A scale pit exists near the lagoon area. Water from the steel plant flows through the scale pit and is then processed at this SWMU. Note in the background of the photo the large pile of Basic Oxygen Furnace (BOF) dust transported here from the BOF.



Photo No.: R1P5 - R1P6 Direction: Southeast Date: February 23, 2000 Time: 1206

Description: Panora

Panoramic view of the Ladle Metallurgy Facility Baghouse (SWMU 11) and the roll off box containing hazardous cadmium waste. There is a concrete pad underlying the roll off box, but there does not appear to be any containment located underneath the Baghouse. Note the fill start date on the hazardous waste roll off is labeled 2-18-00.



Photo No: R1P7
Direction: Southeast

Date: February 23, 2000

Time: 1207

Description: Full length photograph of the Ladle Metallurgy Facility Baghouse (SWMU 11). Hazardous cadmium waste roll off box is obscured by van on side of Baghouse.

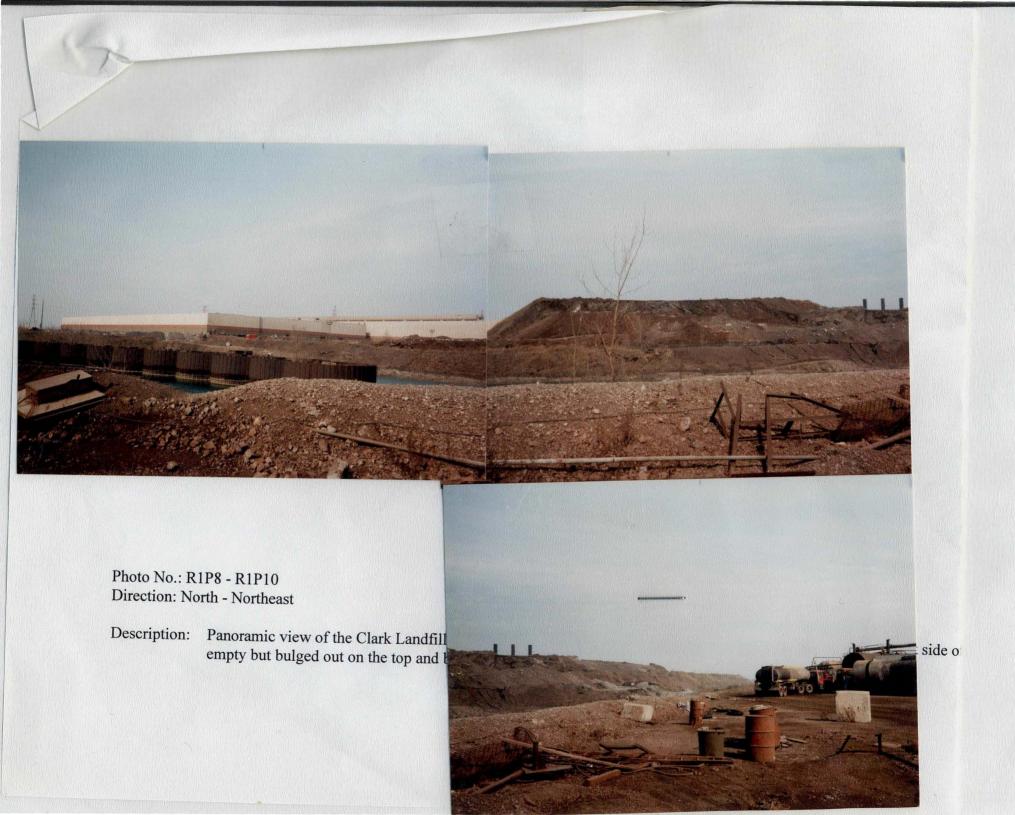




Photo No.: R1P11 - R1P13 Direction: North - Northeast

Description: View of SWMU 7, "The Hill". "The Hill" was stated to be used as a landfill for steel mill wastes, although LTV personr

disposed of at this landfill. This SWMU is no longer in operation. Note on the left side of the photo the ditch containing

treatment plant.



Photo No.: R1P14 Direction: Southeast Date: February 23, 2000 Time: 1258

Description: Photo of the former Concrete Sludge Drying Beds (SWMU 27). A concrete wall used to surround the beds, and reportedly contained the sludge. It is unclear if there was a concrete floor under the drying beds. The concrete wall no longer exists and the area of the SWMU is now covered with piles of debris.



Photo No.: R1P15
Direction: Southwest

Date: February 23, 2000

Time: 1306

Description: Photograph of the area where the Filter Backwash Pile (SWMU 23) formerly

existed. The location of this SWMU is in the area near the pickup truck in the photo (center of photo). This pile no longer exists and now is a concrete-lined pit.

New photo looks
different from old.

New photo hows I AST?

and confirment converte

well. Old state show

no Contament and 2 AST



Photo No.: R1P16
Direction: North

Date: February 23, 2000

Time: 1315

Description: View of the Spent Pickle Liquor Tanks (SWMU 28 and 29). Note the staining on

the concrete wall which may be considered as secondary containment.



Photo No.: R1P19 Direction: South Date: February 23, 2000 Time: 1410

Description: View of the Waste Tin Line Washwater Tank (SWMU 44). Note the metal

structure beneath the tank is labeled "Hazardous Waste".



Photo No.: R1P20 Direction: South Date: February 23, 2000

Time: 1420

Description: View of the No. 2 Tin Mill Waste Sodium Dichromate Truck Loading Station (SWMU 45). Note the blue staining in the bottom of the loading basin. Also,

there were several areas on the gravel surrounding the loading basin that had blue

staining.



Photo No.: R1P21 Direction: East Date: February 23, 2000

Time: 1435

Description:

Photograph of the No. 2 Tin Mill Waste Chromic Acid Tank (SWMU 50) located on the middle level of the scaffolding. In the photos from the 1992 RCRA Facility Assessment Report, a second tank was previously located on the upper level of the scaffolding. Note the staining/rust on the building.



Photo No.: R1P22 Direction: Northeast Date: February 23, 2000

Time: 1436

Description: View of the truck wash station at the No. 2. Tin Mill Waste Chromic Acid Station (SWMU 50). New concrete and gravel appear to have recently been placed in this

area.



Photo No.: R1P17 Direction: Northeast Date: February 23, 2000

Time: 1316

Description: Photograph of the ferrous chloride waste tanks. The tanks appear to be labeled as

hazardous. Note the staining on the concrete berm around the tanks.



Photo No.: R1P18
Direction: Southwest

Date: February 23, 2000 Time: 1349

Description: Photo of the former Coke Plant Decanter Site (SWMU 65). The coke

manufacturing operations at the site no longer exist. The area is now covered with scrub brush and the majority of buildings have been demolished in this area.

APPENDIX B

Field Notes from 23, 2000 Site Visit



HORIZONTAL LINE

All-Weather Notebook No. 391

LTV Steel February 23,00'

4 5/8" x 7" - 48 Numbered Pages

a/23/00 arrived at site 1000 met with IDEM personne/:

Mike Sickels
Ruth Williams
Chris Myer

arranged Swmus on site map in order to be prepared for meeting a present areas to view for potential sampling).

1045 drove into site to meet with LTV personnel

Mile Thomas - LTV Alan Cross - LTV

- began meeting to discuss the locations with LTV. (will take pictures is provide LTV with pictures).

- Wayne Gould - LTV -> Assets Management Section

Din charge of areas that have been demalished

It appears that a portion of the area has been demolished in the past which contained areas of potential sampling linable to identify areas now since all buildings have been demolished The Assets Mant. Branch could potentially locate these areas of land.

- Going on site tour 1135.

Former Cadense Tank is first stop.

(Swmu 18 area) -> FKA 312

- fuel oil # 6 tank.

R1P1 1148 2/23/60 SE

View of the fuel oil#6 tank. Note water and sheen floating on water. Picture from ontop of bern.

DC 2/23/0

RIP2 1150 2/23/00 SE

Photo of the #6 fuel oil tank from bottom of bern looking up.

water was all around the bottom of the tank. Sheen floating on top.

- Terminal Layon SWMU 10

R1P3 + R1P4 2/23/00 N-NE

view of the Ferminal Lagoon (SWMU 10)

-there is a scale pit ahead of the con't Terminal Layoon which has the major water flow from the steel plant of then processed through this system.

· OSC 2/23/00

In photo RIP3 - RIPY - note the Basic Oxygen Furnace CBOF) dust.

Smu^{oc}ers Swmu II - LMF Baghause

R1P5-R1P6 Z/23/00 1206 SE

view of the LMF Baghouse and the roll off containing hazardars waste cadmium.

Noke on photo RIP5 the fill start date on the haz. master roll off is 2-18-00.

concrete underneath roll off box - does not appear to be any concrete or containment under baghouse.

1 050 2/23/00

RIPT 1207 2/23/00 SE

view of bashouse & containment for wask cadmium.

SWMU 15 Basic Oxygen Furnace that generales BoF dust.

generated here and then Frucked over to the pile for barjour BOF dust (Photo RTP3-RIP4)

no photos taken at this Swmu.

DJC 2/13 Landfilt

Clark Materials Landfill

[contractor that ran landfill was called Clark

RIP8-RIP10

2/23/00 N-NE

1218

view panoramic view of the Clark landfill.

Photo RIPIO - note drims + scrap materials in the foreground.

Swmu 7 - "The Hill"-no longer in operation

the Hill was used for "steel mill maste" no definite knowledge of what was disposed of in this Swmu.

RIPII - RIPI3

2/23/60 N-NE

view of "the Hill" - note the scrub

SC 2123/80 grass on "the Hill"

05/2/23/00

Note in RIPII the waskwater running to the waskwater treatment plant.

Swmu 27 - Concrete Sludge Drying Bells

now - do not know if there was a floor in these drying beds.
no longer used as drying beds.
Pile is now debris ontop
of where drying beds were
located.

RIP14

2/23/00 SE

view of former concrete studge drying beds (swmu 27). The connecte wall no longer exists and debris now covered on top of drying beds.

05° 2/23/00

SWMU 26 was in an excavated area and is now gone.

Swmu 23 (filter backwash pile) was located in the area of swmu 27. The pile no longer (xists.

R1915 1306 2/23/00 SW

view of Swmu 23's former location near blue pick up truck.

Note: a concrete lined pit now exists where swmu 23 was located

No. 3 Sheet Mill Pickk Liquor Tank (Swmu 28 and Swmu 29)

Ø5 2/27/8

RIP16 1315 2/23/00 N

View of the spent pickle liquon tanks (sumu 28.+29). Note the Staining on the concrete which may possibly be considered secondary containment.

P1917 1316 2/23/00 NE

view of the ferrous chloride (waster tanks & the staining on the concrete berm. These tanks are labeled as hazardous.

According to LTV Steel (Mike Thomas) Strong 93 never existed. It was stated that texter the quenching area never was staged and never happened.

WC2/23/00

SWMU 65 - Coke Plant Decenter Site

-no longer in existance. LTV does not manufacture coke any longer. It is all shipped in now.

R1918 1349

W6713/00

2/23/00 SN

View of the former swmu 65 —
Area is now scrub brush y
all coke plant buildings (decanter)
are removed from this area.

Swmu 50 -> FOOT waste Swmu 45 -> DOOT waste

Swmu 50 is a new structure now -> replacing old Swmu 50.

> ALL Smw4 505 are 44 summer

R1919

2/23/00 S

#2 Waste Chromic Acid Tank Area (former Swmu 50). Now concrete catch basin in area

Ppicture is actually Swmu 44.

Swmu 45 - waste sodium dichromate loadung areas

R1P20 2/23/00 1420 S

view of the waste sodium dichromate loading area Cswmu 45).

Note the blue staining in basin and building bottom. Also note the blue around the outside of basin.

DJC 2/23/00

Swmu 50 (wask chromic acid tanks)

RIP21 1435 2/23/00 E

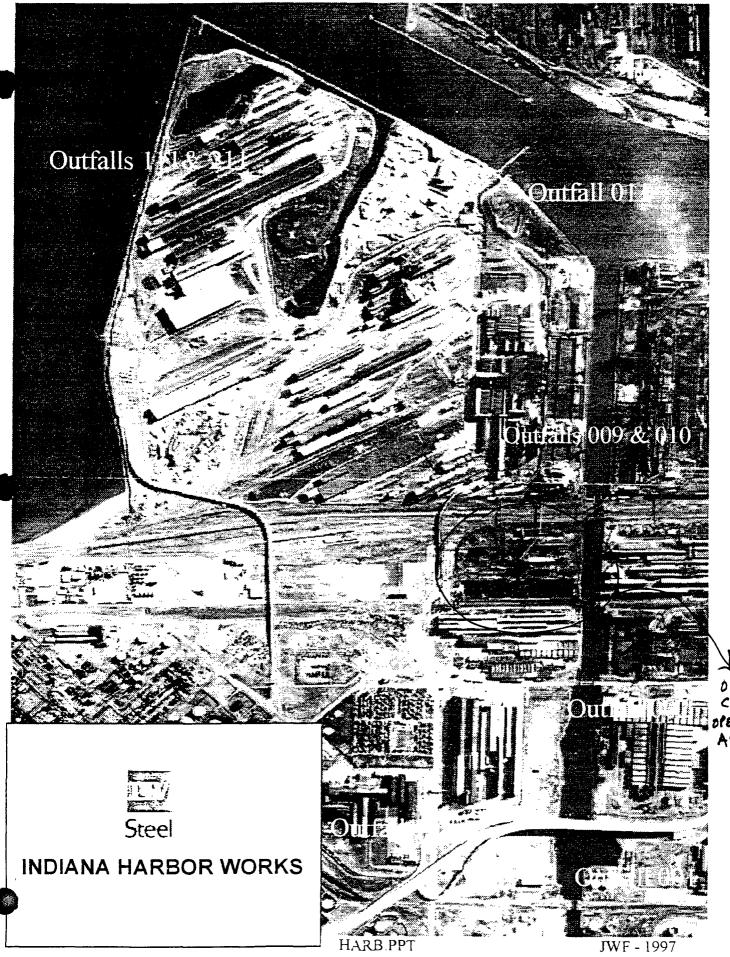
view of the chromic acid (swmuso) tank on 2th level. Note the rust of the building and the absence of a tank on the top level - present in RFA -

R1122 1436 2/23/00 NE

View of truck wash station at Swaru 50. Note the new Concrete and gravel in area.

left site at 1500.

DS C 2/23/00



OLD COKE OPERATION AREA

LTV INDIANA HARBOR WORKS.

RCRA Conective action Meeting

M. J. Thomas

LTV

219391-284

Rush W. Wians Chris L. Myer Demaree Collier

DEM IDEM

Tech Low

Terry Vecker

Tech-aw

Jenamen Ademya HAN CROSS

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